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ELECTRONIC

04/21/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/556,136	07/28/2006	Yoshiaki Kumamoto	280999US0PCT	5996
22850 7550 0421/2010 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET			EXAMINER	
			HELLING, KAITLYN ELIZABETH	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			3739	
			NOTIFICATION DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/556,136 KUMAMOTO ET AL. Office Action Summary Examiner Art Unit KAITLYN E. HELLING 3739 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 19 January 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5.7-10.12-16.18 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-5,7-10,12-16,18 and 19 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/SB/06)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

The amendment filed on January 19, 2010 has been entered. Claims 1-5, 7-10,
 12-16, 18 and 19 remain pending in the application.

Terminal Disclaimer

The terminal disclaimer filed on January 19, 2010 disclaiming the terminal portion
of any patent granted on this application which would extend beyond the expiration date
of U.S. Patent Number 7,353,820 has been reviewed and is accepted. The terminal
disclaimer has been recorded.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 12-16 and 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Application Publication No. 01-201253 to Yahara et al. (Yahara) which for the sake of clarity, reference will be made to the English language translation supplied with this Office Action.

Regarding claims 12-14, Yahara teaches a heat generating, shaped article prepared by three-dimensionally shaping a molded sheet, that method comprising an oxidizable metal, a moisture-retaining agent and a fibrous materials (Claims and Industrial Field of Application) with the molded sheet molded by papermaking (Claims and Pg. 4), disposed between an air permeable and an air impermeable sheet (Fig. 1 and Pg. 8) and having a maximum stress of 0.3 to 5 MPa and a breaking elongation of 2.0 to 10% and a maximum stress of 0.5 to 15 MPa and a breaking elongation of 0.8 to

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5% in its dried state (The MPa and breaking elongation are measured properties which the Office has no way of measuring. Therefore the burden rests on applicant to provide proof the molded sheet of Yahara does not have these properties and the claimed properties render the claimed invention patentably distinct from that taught by Yahara). In the event that Yahara does not teach such properties, it would have been an obvious matter of design choice among readily available materials to one having ordinary skill in the art at the time of the invention to have used a fibrous material having the claimed properties because no unique structure is disclosed. Therefore, all claimed materials are considered to have similar properties to similar materials known in the art.

Regarding claims 15 and 16, Yahara teaches the article of claims 12, as well as Yahara teaching the molded sheet containing at least 50% by weight of components other than the fibrous material (Pg. 6), but not the fibrous material having a CSF of 600ml or less (This is a property of pulp drainage and the Office has no way of measuring the CSF of the pulp used in Yahara. The burden rests on applicant to provide proof if the fibrous material disclosed in Yahara does not have this property and the claimed property renders the claimed invention patentably distinct from that taught by Yahara). In the event that the fibrous material taught by Yahara does not have a CSF of 600 ml or less, it would have been obvious to one having ordinary skill in the art at the time of the invention to have used such a fibrous material as a matter of design choice as such properties are easily obtainable in pulp minerals as taught by Yahara.

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Regarding claim 18, Yahara teaches the article of claim 12, with Yahara teaching the further limitation of an electrolyte incorporated into the heat generating shaped article (Claims and Industrial Field of Application).

5. Claims 1, 2, 4, 5, 7-10 and 19 rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Application Publication No. 01-201253 to Yahara et al. (Yahara) which for the sake of clarity, reference will be made to the English language translation supplied with this Office Action in view of U.S. 2001/0049546 A1 to Dvoretzky et al. (Dvoretzky).

Regarding claims 1 and 2, Yahara teaches a warming article having a heat generating main body comprising a heat generating element (Fig. 1 and Claims) configured to generate water vapor (inherent in that there is water disposed in the main body and sufficient heating as taught on pg. 10 to cause vaporization) an air permeable holder (2, Fig. 1 and Pg. 8) including an air permeable layer and an air impermeable layer (Pg. 8) which are disposed on opposite sides of the heat generating element (Pg. 8), the heat generating main body expandable by water vapor generated with the heat generation of the heat generating element (Claims and Industrial Field of Application). However, Yahara does not teach a receiving part configured to receive a part of the body which is provided on the air permeable side of the holder. Dvoretzky teaches a multi-purpose drug and heat delivery system (title) including a receiving part (Figs. 1-4 and [0015 and 0041-0044]). The receiving part of Dvoretzky would necessacerily be provided on the air permeable side of the heat generating element as it is the air permeable side of the heating element that is going to provide heat treatment to the

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body part. In Dvoretzky, the body retaining element is in contact with the air impermeable side and the air permeable side (Fig. 1). It would have been obvious to one having ordinary skill in the art at the time of the invention to have modified Yahara to have included the receiving part of Dvoretzky as Dvoretzky teaches that the receiving part securely maintains the heating element in the desired location, assisting in regulating and controlling the heat level and air transmission enabling a controlled heat delivery ([0028]).

Regarding claim 7, Yahara teaches a warming article having a heat generating main body comprising a heat generating element (Fig. 1 and Claims) configured to generate water vapor (inherent in that there is water disposed in the main body and sufficient heating as taught on pg. 10 to cause vaporization) an air permeable holder (2. Fig. 1 and Pg. 8) including an air permeable layer and an air impermeable layer (Pg. 8) which are disposed on opposite sides of the heat generating element (Pg. 8), the heat generating main body expandable by water vapor generated with the heat generation of the heat generating element (Claims and Industrial Field of Application). However, Yahara does not teach a receiving part configured to receive a part of the body which is provided on the air permeable side of the holder. Dvoretzky teaches a multi-purpose drug and heat delivery system (title) including a receiving part (Figs. 1-4 and [0015 and 0041-0044]). The receiving part of Dvoretzky would necessacerily be provided on the air permeable side of the heat generating element as it is the air permeable side of the heating element that is going to provide heat treatment to the body part. In Dvoretzky, the body retaining element is in contact with the air impermeable side and the air

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permeable side (Fig. 1). It would have been obvious to one having ordinary skill in the art at the time of the invention to have modified Yahara to have included the receiving part of Dvoretzky as Dvoretzky teaches that the receiving part securely maintains the heating element in the desired location, assisting in regulating and controlling the heat level and air transmission enabling a controlled heat delivery ([0028]).

However neither Yahara nor Dvoretzky teaches the warming article generating 1.0 to 100 mg/(cm²x10 min.) of water vapor. However, the warming article by Yahara is capable of producing water vapor in this range as the amount of water vapor produced is a function of material choice and the concentration of various components of the pulp mixture disclosed. It would be a matter of routine experimentation and design choice to produce a warming article as taught by Yahara which has a water vapor production within the claimed range. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to have made a warming article that is capable of generating the desired water vapor as a matter of course in optimizing the invention (see MPEP 2144).

Regarding claims 4 and 9, Yahara in view of Dvoretzky teaches the article of claims 1 and 7 above, with Yahara teaching the further limitation of the method of producing a warming article comprising a heat generating element prepared by papermaking and containing an oxidizable metal, a moisture-retaining agent, a fibrous material, and water (Claims, Industrial Field of Application and Pgs. 4 and 6).

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Regarding claim 8, Yahara in view of Dvoretzky teaches the article of claim 7, with Yahara teaching the further limitation of the holder having an air permeability of 10000 sec/100 ml or less (Pq. 11).

Regarding claims 5 and 10, Yahara in view of Dvoretzky teaches the article of claims 4 and 9, as well as Yahara teaching the molded sheet containing at least 50% by weight of components other than the fibrous material (Pg. 6), but not the fibrous material having a CSF of 600ml or less (This is a property of pulp drainage and the Office has no way of measuring the CSF of the pulp used in Yahara. The burden rests on applicant to provide proof if the fibrous material disclosed in Yahara does not have this property and the claimed property renders the claimed invention patentably distinct from that taught by Yahara). In the event that the fibrous material taught by Yahara does not have a CSF of 600 ml or less, it would have been obvious to one having ordinary skill in the art at the time of the invention to have used such a fibrous material as a matter of design choice as such properties are easily obtainable in pulp minerals as taught by Yahara.

Regarding claim 19, see the rejection of claim 7 with respect to the placement of the receiving part in conjunction with the lavers.

 Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yahara et al. and Dvoretzky as applied to claim 1 above, and further in view of Japanese Patent Application Publication No. 2002-078728 to Toru et al. (Toru).

Yahara in view of Dvoretzky teaches the article of claim 1, but not the moisture or water permeability within the range of 1.5 to 10 kg/(m²x24 hr). Toru teaches a warming article with air permeability that has a moisture permeability within the range of 1.5 to 10

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kg/(m²x24 hr). It would have been obvious to one having ordinary skill in the art at the time of the invention to have further modified Yahara and Usui with the moisture/water vapor permeability of Toru as Toru teaches that steam generation in a warming article to be applied to the skin is advantageous (Claims).

Response to Arguments

- Applicant's arguments filed January 19, 2010 have been fully considered but they are not persuasive.
 - a. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the receiving part imparts a structure as in Fig. 2 of the application) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

To clarify the examiner is saying that the receiving part of Dvoretzky is the space provided for the reception of the body part and is does not require a particular structure. As such it can be interpreted as the receptive space for the body with a securing element to hold the warming article in place.

b. With regard to applicant's argument that the Office Action fails to give any weight to the term "three-dimensionally shaped", the examiner respectfully disagrees. Yahara teaches a heat generating, shaped article prepared by three-dimensionally shaping a molded sheet, that method comprising an oxidizable metal, a moisture-retaining agent and a fibrous materials (Claims and Industrial).

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Field of Application) with the molded sheet molded by papermaking (Claims and Pg. 4), and therefore applicant must distinguish the molded sheet of Yahara from the molded sheet as claimed.

c. Regarding applicant's argument on page 9 of the remarks/arguments, the examiner maintains the rejection. The examiner is not stating that the maximum stress and breaking elongation parameters are optimum values that resulted from routine experimentation by one of ordinary skill in the art. The examiner is taking the position that the maximum stress and breaking elongation parameters would result from an obvious design choice among readily available materials to one having ordinary skill in the art as no unique structure is disclosed.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the
examiner should be directed to KAITLYN E. HELLING whose telephone number is
(571)270-5845. The examiner can normally be reached on Monday - Friday 9:00 a.m.
to 5:30 p.m. EDT.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571)272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. E. H./ Examiner, Art Unit 3739 /Roy D. Gibson/ Primary Examiner, Art Unit 3739